Work Ord Wednesday, Jun				*120	1 097*							Page	1
Item ID: Revision ID:	D3489-3-2	200	A	Accept	*N900	<u>ი</u> 40	100)*	Setup		*N	S1*	
Item Name:	Pip Pin									Stop	*N	S2*	
Start Date:	6/04/14	Start Qty: 10.00	*10*		Cust Item 1	D:							
Required Date	: 6/04/14	Req'd Qty: 10.00	*10*		Customer:								
Reference:								_		.			
Approvals:	Process I	Plan: MUS	Date: <u>14-06-05</u>	Tooling:	D:	ate:		F	Run	Start	*N	R1*	
	QC:		_ Date:	SPC (Y/N):	D	ate:				Stop	*N	R2*	
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp	
Draw Nbr	R	levision Nbr											
D3489	R	ev A											
100				0.00				C 4					
100		PURCHASING						$-c\mathcal{L}$	14/0	06/1	(10		
Purchasing Purchasing		Memo Issue P/O:_	24549 P/N:806206	0.00 Possible Supplier: Jerg	ens								
110		Receive & Inspect for D	Damage & Mat'l Certs	0.00						2 /	13	<i>(</i> .	
110 Packaging		Memo		0.00					4	7/6/	13	-(l)	
Packaging			terial certification is attached							• /			
120 *1 20*		QC6- Inspect dimensio Memo	ns to drawing	0.00 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ko			10					_
Quality Control				_	•								

DQA:			Date:											TRAC
						WORK ORDER NON-	-CC	ONFO	RMANCE / UF				–	AEROSPACE
QA Closed:			Date:								W	ork Order up	date only	
Work Orde	ır.					DISPOSITION								
WOIR Olde					-	Rework		Skid-tube Crosstube					Water Jet	Engineering
Part N	lo.					Scrap		Machining Small Fab				Pro	d. Eng. Coor.	Quality
	_				_	Use-as-is		Thermoforming Finishing			t .	re/Packaging	Other	
NCR No.						Suspected Unapproved			Large Fab Composite			·	Supplier	
Root					Desci	ription of work order update		nitial	Acti			Sign &		
Cause	_	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	ption		Date	Verification	QC Inspector
Design	_													·
Doc/Data	_		-											
Equip/Tooling														
Handling/Pre														
Material														
Operator	_													
Offset/Setup							İ							
Process	\dashv													
Supplier						•								
Training	_													
Transport	_													
Unapproved				<u> </u>		w	1		<u></u>			<u>L</u>		<u> </u>
							FAI	ULT CA	TEGORY	-		·		"
Landir					_	General] (5		ı		المستعد ما		Pressure/Forced
	\dashv	Bending			-	Bend	l-	4	Program			Outside Dim	-	Set-up
		Centre No	ot Concer	ntric	<u> </u>	BOM/Route		Grain			_	Over/Under Part Incorre	_	Temperature/Cure
	_	Cracks			-	Broken/Damage/Defect	<u> </u>	Hardwa		المانية		4	├	Weld
	Crimp/Kink/Ripple/Wave				\vdash	Burrs	⊢	4 '	ion Incomplete/Un			Part Lost/Mi	22111g	Wrong Stock Pulled
	—	Cuffs			\vdash	Contamination	_	4	tions Incomplete/U	inciear	 	Part Moved Positioned V	L	TANTONE STOCK Lanea
	-	Crushing			\vdash	Countersink	\vdash	4	gned/off center		\vdash	Power Loss/		Other
	-	Heat Trea		T. t	<u> </u>	Cut Too Short	-	Mislabe Misrea				Trower ross/	Jui 8c	Other
	\blacksquare	Inspection	•	rupe		Drawing	<u> </u>	Off-set						
		Marks/Ch			\vdash	Drill Holes	\vdash	4	Calibration					
	-	Turning S			-	Finish	\vdash	4						
Wave/Twist in Tube					l	Fit/Function	1	Jout of :	Sequence					

120097

Page 2 Wednesday, June 04, 2014 2:55:44 PM D3489-3-200 Accept Item ID: Setup Start *N900040100* **Revision ID:** Stop **Item Name:** Pip Pin *10* **Start Oty: 10.00** Start Date: 6/04/14 **Cust Item ID:** Required Date: 6/04/14 Req'd Qty: 10.00 *10* **Customer:** Reference: Run Start Process Plan: Date: **Tooling:** Approvals: Date: Stop Date: SPC (Y/N): QC: Date: Operation Sequence ID/ Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID Description** Code Qty Qty Number Stamp **Run Hours** Identify as per dwg & Stock Location: (5A 130 0.00 *130* JUN 1 6 2014 Packaging 0.00 Memo Packaging 140 QC21- Final Inspection - Work Order Release 0.00 *140* QC 0.00 Memo Quality Control

DQA:			Date:										`DAR	T
QA Closed:			Date:			WORK ORDER NON	-C(ONFOI	RMANCE / UP		Vork Order u	odate only	AEROSPA	C E
Mark Orda						DISPOSITION								
Part No. NCR No.			Rework Scrap Use-as-is Suspected Unapproved		Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite				Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other				
			ı i		Dana		otion of work order update Initial Action			Sign 9.				
Root		Data	Cton	Otre	Desc	ription of work order update or non-conformance	•	nitial ief Eng	Descri	•	Sign & Date	Verification	n QC Inspecto	ır
Cause	+	Date	Step	Qty		or non-conformance	Cit	iei ciig	Descri	ption	Date	Vernication	1 QC IIISPECIC	<u>'</u>
Design	\dashv													
Doc/Data	\dashv													
Equip/Tooling														
Handling/Pre	\dashv		•											
Material	\dashv													
Operator Offset/Setup	-											ļ		
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Process	\dashv										1			
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Transport	\dashv											1		
Unapproved	ㅓ						ł							
onupproved				<u> </u>	<u> </u>		FA	ULT CA	TEGORY					
Landin	ng G	ear				General								
Γ		Bending				Bend		Folio/F	Program		Outside Dim	ensions	Pressure/Forced	
		_	ot Concer	ntric		BOM/Route		Grain	•	Ţ	Over/Under	tolerance	Set-up	
	\dashv	Cracks				Broken/Damage/Defect		 Hardwa	are	Ţ	Part Incorre	ci	Temperature/Cu	re
	_		nk/Ripple	/Wave		Burrs		Inspect	ion Incomplete/Un	qualified	Part Lost/M	issing	Weld	
	-	Cuffs	,,	,		Contamination		4 '	tions Incomplete/U		Part Moved		Wrong Stock Pull	ed
	-	Crushing				Countersink		4	gned/off center	Ţ	Positioned \	Vrong		
	\dashv	Heat Trea	at			Cut Too Short		Mislabe	=	Ī	Power Loss,	/Surge	Other	
			n Strip in	Tube		Drawing		Misrea		•		•		
}		Marks/Ch	•		-	Drill Holes		Off-set				**		
	$\overline{}$		equence			Finish		Out of	Calibration					
	_	-	ist in Tub			Fit/Function		Out of	Sequence					

Wednesday, June 04, 2014 2:55:44 PM

Work Order ID: 120097

120097

Parent Item:

D3489-3-200

D3489-3-200

Parent Item Name: Pip Pin

Start Date: 6/04/14

Required Date: 6/04/14

Start Qty: 10.00

Required Qty: 10.00

Comments:

IPP Rev:A New Issue 06-03-10 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
806206		Purchased	No			100	Each	0.0000	1	10	1		
806206									**	/	//4/4/	13/1	(o)

PIP PIN

DQA:			Date:										\ <u>\</u> _		
						WORK ORDER NON	N-CONFORMANCE / UPDATE								
QA Closed:			Date:							V	ork Order up	date only			
Work Order						DISPOSITION									
Work Order	· —					Rework	1		Skid-tube	Crosstube		Water Jet	☐ Engi	ineering	
Part No	No.			Scrap			Machining Small Fab			d. Eng. Coor.		Quality			
	_					Use-as-is		Therr	noforming	Finishing	Rec/Sto	re/Packaging		Other	
NCR No	NCR No.				Suspected Unapproved	ected Unapproved			Composite		Supplier				
				,	_						1 6: 0			+*	
Root	١	_	.	٠.	Desc	ription of work order update		Initial	Acti		Sign &	Verification	ر ا	Classostor	
Cause	+	Date	Step	Qty		or non-conformance	Cn	ief Eng	Descri	iption	Date	vernication	+ 4	C Inspector	
Design	-														
Doc/Data	-														
Equip/Tooling	\dashv														
Handling/Pre Material	\dashv]		
Operator	\dashv			; 											
Offset/Setup	\dashv														
Process															
Supplier	\dashv												l		
Training	٦.	ļ													
Transport	7												j		
Unapproved												<u></u>		<u></u>	
							FA	ULT CA	TEGORY						
Landing	g Ge	ar	•			General		_		_	_	_	_		
	В	ending				Bend	<u> </u>	Folio/F	Program		Outside Dim	-	⊣	ire/Forced	
	_ c	entre No	t Concer	ntric	<u> </u>	BOM/Route	<u>_</u>	Grain		_	Over/Under	 -	Set-up	•	
<u> </u>	_ c	racks				Broken/Damage/Defect	_	Hardwa			Part Incorre			erature/Cure	
	Crimp/Kink/Ripple/Wave			_	Burrs	<u> </u>	4 '	ion Incomplete/Un		Part Lost/M	issing	Weld	o. 10 ft 1		
_	Cuffs				Contamination	<u> </u>	4	tions Incomplete/U	Jnclear	Part Moved	L	Wrong	g Stock Pulled		
	_	rushing			<u> </u>	Countersink		-{ `	gned/off center	<u> </u> -	Positioned V				
-		leat Treat			-	Cut Too Short	_	Mislab		L	Power Loss/	Surge _	Other		
-	_	rspection		Tube	<u> </u>	Drawing	-	Misrea							
-	_	/larks/Cha			-	Drill Holes		Off-set							
-	_	urning Se			\vdash	Finish	\vdash	4	Calibration						
Wave/Twist in Tube				Fit/Function		Jout of	Sequence								



٠.					• • • • • • • • • • • • • • • • • • •
	DESIG	CP.	DRAWN BY	DART AEROSI HAWKESBURY, ONTA	
	CHECK	(ED A)	APPROVED III	DRAWING NO.	REV. A
		栅	- H	D3489	SHEET 1 OF 1
	DATE			TITLE	SCALE
i	06.0	1.04		PIP PIN	NTS
	Α		06.01.04	NEW ISSUE	



SPECIFICATION CONTROL DRAWING

SPECIFICATION: D3489-X-YYY PIP PIN

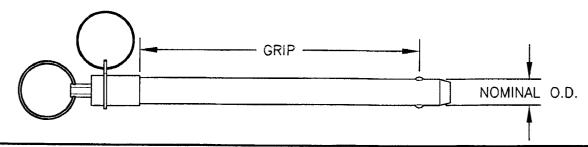
WHERE 'X' IS THE NOMINAL SIZE IN 1/16THS OF AN INCH AND 'YYY' IS THE GRIP LENGTH IN TENTHS OF INCHES

FOR EXAMPLE, D3489-3-050 IS 3/16" NOMINAL O.D. WITH 0.50" GRIP

2) ACCEPTABLE SUPPLIERS / PART NUMBERS TO PURCHASE

DART	Nominal	GRIP	Possible	Suppliers
P/N	O.D.		JERGENS	REID
D3489-3-050	3/16"	0.50	806200	DARS-000D
D3489-3-075	3/16"	0.75	806201	-
D3489-3-100	3/16"	1.00	806202	DARS-001
D3489-3-125	3/16"	1.25	806203	-
D3489-3-150	3/16"	1.50	806204	-
D3489-3-175	3/16"	1.75	806205	-
D3489-3-200	3/16"	2.00	806206	DARS-004
D3489-3-250	3/16"	2.50	806208	DARS-005
D3489-3-300	3/16"	3.00	806209	-
D3489-4-050	1/4"	0.50	806216	DARS-009
D3489-4-075	1/4"	0.75	806217	-
D3489-4-100	1/4"	1.00	806218	-
D3489-4-125	1/4"	1.25	806219	-
D3489-4-150	1/4"	1.50	806220	DARS-020
D3489-4-175	1/4"	1.75	806221	-
D3489-4-200	1/4"	2.00	806222	DARS-030
D3489-4-250	1/4"	2.50	806224	DARS-035
D3489-4-300	1/4"	3.00	806225	DARS-040
D3489-4-400	1/4"	4.00	808227	DARS-050

- 3) DESCRIPTION: DOUBLE ACTING, STAINLESS STEEL, QUICK-RELEASE BALL LOCK PINS WITH RING HANDLE
- 4) MATERIAL: STAINLESS STEEL. MIN. PULL OUT STRENGTH = 200LBS (3/16" PINS) OR 230LBS (1/4" PINS). MIN. DOUBLE SHEAR = 5150LBS (3/16" PINS) OR 9200LBS (1/4" PINS).
- 5) ALL DIMENSIONS ARE IN INCHES





Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO24549

Purchase Order Date 6/11/2014 PO Print Date 6/11/2014

Page Number 6 of 6

Order From:

HASKINS INDUSTRIAL 5-52 ANTARES DRIVE NEPEAN, ON K2E 7Z1 CA

VC-HAS001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Buyer

FOB

Contact Name Vendor Phone

613 723 8800

Ship To Contact Ship To Phone

Ship Via: Dicom

Ship Acct:

17

806206

PIP PIN

g/16/2014 Yes

6/16/2014

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607 Net 30 **Terms** Currency CAD

FCA - (Free Carrier)

10.00 Each \$22.82

\$228.20

AS PER DWG D3489 REV. A B120097

Line Total:

\$228.20

18 71401-45 PROCUREMENT QUALITY CLAUSES 6/16/2014

1.00

\$0.00

\$0.00

PROCUREMENT QUALITY CLAUSES (REQUIRED FOR

LINE 15,16,17)

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A025 CERTIFICATE OF CONFORMANCE

A040 NOTIFICATION OF QUALITY ESCAPE

A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS No

6/16/2014

Line Total:

\$0.00

PO Total:

\$2,502.74

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.

1

HASKINS INDUSTRIAL INC.

** PACKING SLIP **

- Order # --1253921.00

5-52 ANTARES DRIVE

Order Date 06/11/14

INSERT

NEPEAN, ONTARIO K2E 7Z1

TEL (613)723-8800 FAX (613)723-8806

Page

2 of 2

* Reprint *

Sold To: DART AEROSPACE LTD.

1270 ABERDEEN STREET

HAWKESBURY

ON

K6A 1K7

Ship To: DART AEROSPACE LTD.

1270 ABERDEEN STREET

CNMG432K KC935

HAWKESBURY

ON

K6A 1K7

	Cust Phone #	Warehou OTTAWA	-	F.O.B. DEST		Taken By Sylvie 613-723-880
Cust # 05168	Customer P/O # 24549	Required 06/12/14	Orig Order 1253921.00	Slsm PL	Ship Via	Terms NET 30

Order UM Ship B/O Product Description ______

KEO1X1

1158624

DNMG432MP KCM25 13 20 KEO1X1 INSERT 3760355

DNMG 432MG KC935 NO LONGER AVAILABLE

20

20 EA

14 * 1 SO1X1 894383 100TG-NUT LYNDEX 1 EA 0#597392

500 MMS-D3672-1 .437 X .210 X .031 +/-.002 WASHER, PHENO 15 CAB810 500 EA

.562 X .328 X .031 +/-.002 WASHER, PHENO 16 CAB810 500 EA 500 MMS-D3672-7

17 030220 10-EA JG-806206 3/16 DBL ACTION RING HANDLE 806206

PLEASE NOTE:

- 1. NO RETURNS WITHOUT PRIOR AUTHORIZATION
- 2. ALL SHORTAGE CLAIMS MUST BE WITHIN 10 DAYS
- 3. BO CODE: BO = QTY NOT SHIPPED IS BACK-ORDERED

CL= QTY NOT SHIPPED WAS CANCELLED

SC= ITEM CONSIDERED COMPLETE - NO B/O CREATED

PACK Printed on 2014-06-12